

ABSTRACT OF THE DISCLOSURE

A method of estimating a pure spectrum and a concentration of each component constituting n sample mixtures, in which p kinds of components are mixed, includes (a) performing a principal component analysis of the spectra of the n mixtures, which are measured using m wavelengths, to represent the spectra of the n mixtures as factors and scores of the respective factors, wherein n , p , and m are integers and $m > p$, and (b) performing an independent component analysis of the scores obtained in (a) to estimate the pure spectra and the concentrations of the respective components.